

# ALAN H. KRAKAUER

Department of Evolution and Ecology, University of California  
One Shields Avenue, 2320 Storer Hall, Davis, CA 95616  
(530) 754-7837, fax (530) 752-1449, mobile (510) 932-1930  
email: ahkrakauer@ucdavis.edu <http://www.alankrakauer.org/>

## **CURRENT POSITION**

---

University of California, Davis. Davis, California

Department of Evolution and Ecology (October 2005 – present)

Postdoctoral Researcher (Assistant Project Scientist), Patricelli Lab. I am a Co-PI on an NSF-funded project (IOS-0925038) to study behavioral plasticity in Greater Sage-grouse (*Centrocercus urophasianus*). Advisor: Gail Patricelli.

## **EDUCATION**

---

Ph.D. University of California, Berkeley. Berkeley, California  
Integrative Biology (Fall 2005)

Dissertation: *The Evolution of Cooperative Male Courtship: Kin Selection and the Mating system of the Wild Turkey (Meleagris gallopavo)*

W. Koenig (co-chair), E. Lacey (co-chair), S. Beissinger, R. Dudley, and N. Johnson.

B.S. Cornell University, Ithaca, New York  
Biology, 1996, with High Honors, concentration in Ecology and Systematics

## **GRANTS**

---

*Current Funding:* Co-PI, NSF IOS-0925038, 2009-2012

*National Science Foundation:* Doctoral Dissertation Improvement Grant, 2001-2004.  
International Scholar Travel Award, 2006.

*Animal Behavior Society:* Student Research Award, 2001.

*American Ornithologist's Union:* Student Research Award, 2001.  
Marsha Tucker Brady Student Travel Awards, 2002 & 2004.  
Postdoctoral Scholar Travel Award, 2009.

*Sigma Xi:* Grant in aid of Research, 2000.

*University of California Berkeley:* Internal grants from the Department of Integrative Biology and the Museum of Vertebrate Zoology totaling more than \$20,000.

*University of California Davis:* Postdoctoral Scholar's Association Travel Award, 2006.

## **AWARDS**

---

*American Ornithologists' Union:* Nellie Johnson Barody Award, best student paper 2004

*Animal Behavior Society:* Warner Clyde Allee student paper award (honorable mention), 2005

*National Science Foundation:* Graduate Research Fellowship, 1999.

*Museum of Vertebrate Zoology:* Joseph Maillard Fellowship, 2003, 2005.

*University of California Davis Office of Research:* Postdoctoral Fellowship, Laboratory Management Institute, 2006-2007.

## **TEACHING EXPERIENCE**

---

University of California, Davis.

*Graduate Group Core Course, Animal Behavior.* Co-Instructor. 2007-2012

*Animal Behavior.* Guest lecture. 2007

*Animal Communication.* Guest lecture. 2006-2011

*Behavioral Ecology.* Guest lecture 2008, 2010

*Freshman Seminar in Sexual Selection.* Guest Instructor 2009

University of California, Berkeley.

*Research Reviews in Animal Behavior.* Coordinator for seminar/discussion series. 2004-5

*Behavioral Ecology.* Grader and course coordinator. 2004

*Animal Behavior.* Teaching Assistant and coordinator, 2002-3

*Mammalogy.* Teaching assistant (lab). 2001

*Field Ecology Section.* Teaching Assistant and co-developer of special section of Intro Biology course. 1998-1999. Course received UCB Educational Initiatives Award.

*Introductory Biology.* Teaching Assistant. 2000, 2004

## **RESEARCH EXPERIENCE**

---

University of California, Berkeley: Museum of Vertebrate Zoology (2005). Curatorial Assistant, Mammal Collection.

Cornell University: Department of Psychology. (1997-1998). Laboratory Technician, conducted research on development of behavior in captive Zebra Finch.

## **MENTORSHIP EXPERIENCE**

---

University of California, Davis

Supervised 20 post-graduate field interns, >141 undergraduates (~70% female, >18 minority), including 4 senior practica, two Biology Undergraduate Scholars Program students, one Davis Honors Challenge. Lab received campus-wide recognition for undergraduate mentorship in Spring 2012.

*Entering Mentoring* workshop (Biology Undergraduate Scholars Program)

Mentored 2 high-school interns (Youth Scholars Program).

Volunteered for career panels and academic life seminars for undergraduates.

University of California, Berkeley

Trained and supervised 5 female undergraduates, 9 post-graduate field interns.

Mentored 10 undergraduate teaching assistants in 3 separate courses.

Cornell University.

Trained and supervised 5 laboratory and field assistants

## **PUBLICATIONS**

---

**Krakauer, A.H.**, Webster, M.S., DuVal, E.H., Jones, A.G., and Shuster, S.M. 2011. The opportunity for sexual selection: not mismeasured, just misunderstood. *Journal of Evolutionary Biology*. 24: 2064-71.

Patricelli, G.L., **Krakauer, A.H.**, and McElreath, R. 2011. Assets and tactics in a mating market: economic models of negotiation offer insights into animal courtship dynamics. *Current Zoology*. 57: 225-236.

- Blumstein, D.T. et al., 2011. Acoustic monitoring in terrestrial environments: applications, technological considerations, and prospectus. *Journal of Applied Ecology*. 48: 758-767.
- Krakauer, A.H.** & DuVal, E.H. 2011. Kin selection and cooperative courtship in birds. In C.A. Salmon and T.K. Shackelford (eds.), *The Oxford Handbook of Evolutionary Family Psychology*. New York: Oxford University Press.
- Patricelli, G.L. & **A.H. Krakauer**. 2010. Tactical allocation of display effort reduces trade-offs among multiple sexual signals in greater sage-grouse: an experiment with a robotic female. *Behavioral Ecology* 21: 97-106.
- Krakauer, A.H.**, Tyrrell, M., Lehmann, K., Losin, N., Goller, F., and Patricelli, G.L. 2009. Vocal and anatomical evidence for a two-voiced system in the greater sage-grouse (*Centrocercus urophasianus*). *Journal of Experimental Biology* 212: 3719-3727.
- Koenig, W.D., **Krakauer, A.H.**, Monahan, W.B., Haydock, J., Knops, J.M.H., and Carmen, W.J. 2009. Mast-producing trees and the geographical ecology of Western Scrub Jays. *Ecography* 32: 561-570.
- Koenig, W.D., Shen, S.-F., **Krakauer, A.H.**, and Haydock, J. 2009. Reproductive skew in avian societies. Pp. 227-264 in (R. Hager, and C.B. Jones, eds) *Reproductive Skew in Vertebrates: Proximate and Ultimate Causes*, Cambridge University Press, Cambridge.
- Krakauer, A.H.** and R.T. Kimball. 2009. Interspecific brood parasitism in galliform birds. *Ibis* 151: 373-381.
- Krakauer, A.H.** 2008. Sexual selection and the genetic mating system of Wild Turkeys. *Condor* 110(1): 1-12.
- Krakauer, A.H.** 2005. Kin selection and cooperative courtship in wild turkeys. *Nature* 434:69-72.
- Krakauer, A.H.** 2003. California Quail lays egg in Wild Turkey nest. *Western Birds* 34:169-170.
- Adkins-Regan, E., and **Krakauer, A.** 2000. Removal of adult males from the rearing environment increases preference for same sex partners in the zebra finch (*Taeniopygia guttata*). *Animal Behaviour* 60: 47-53.
- Walcott, C., Evers, D., Froehler, M, and **Krakauer, A.** 1999. Individuality in "Yodel" calls recorded from a banded population of Common Loons (*Gavia immer*). *Bioacoustics*, 10: 101-114.
- Krakauer, A.H.** and Krakauer, T.H. 1999. Foraging of Yellow-headed Caracaras in the fur of a three-toed sloth. *Journal of Raptor Research* 33: 270.
- Tauber, C.A. and **Krakauer, A.H.** 1997. Larval characteristics and generic placement of endemic Hawaiian Hemerobiids (Neuroptera). *Pacific Science* 51: 413-423.
- Krakauer, A.H.** and Tauber, C.A. 1996. Larvae of *Micromus*, generic characteristics and a description of *Micromus subanticus* (Neuroptera: Hemerobiidae). *Annals of the Entomological Society of America* 89: 203-211.

## **PRESENTATIONS- SCIENTIFIC MEETINGS AND WORKSHOPS**

---

*Acoustical Society of America (invited)*, fall 2012

*American Association for the Advancement of Science Pacific Division*: 2009 (invited)

*American Ornithologists' Union*: 2001, 2004 (best paper), 2005, 2007 (invited), 2009, 2010

*Animal Behavior Society*: 2004, 2005 (best paper, hon. mention), 2010, 2011

*Bay Area Conservation Symposium*: 2003

*International Ornithological Congress: 2010*

*International Society for Behavioral Ecology: 2002, 2006, 2008*

*National Science Foundation- Microphone Array Workshop: 2008*

*North American Ornithological Congress 2002, summer 2012*

*Southern California Animal Behavior Conference 2005*

*University of California Davis Regional Animal Behavior Conference: 2009*

## **OUTREACH AND INVITED TALKS**

*Invited Seminars:* Duke University, UNC Greensboro, UNC Chapel Hill, UC Berkeley, UC Davis, UC Santa Cruz, City College of San Francisco (fall 2012)

*Public Talks:* Audubon Society (Monterey Chapter, Cody Chapter, Mt. Diablo chapter- fall 2012), Chapel Hill Bird Club, Lander Rancher's Association, Lander Sage-grouse Working Group, Point Reyes National Seashore, Santa Lucia Preserve.

*Interviews:* Radio (BBC, KCBS- Bay Area, KQED Quest), Magazines (*Science News*, *Science and Spirit*, *Living Bird*, *Outdoor News*), Newspapers (*SF Chronicle*, *NY Times*, *Boston Globe*, *Berkeley Daily Planet*, *Carmel Valley Pine Cone*, *Contra Costa Times*), Undergraduate journalists (Harvard, UA Fairbanks, Vassar, UC Davis, UC Berkeley)

*Media:* PBS *Nature* "What Females Want and What Males Will Do" (2008), BBC *Life* (2009), *Science Nation* (NSF) video.

*Other Outreach:* WonderLab (Bloomington Indiana) event, Brighton and Mays Science Museum Exhibit (UK), UC Davis Birders Group Administrator.

## **PROFESSIONAL SERVICE**

*Manuscript Reviewer:* Animal Behaviour, Animal Conservation, Journal of Applied Ecology, The Auk, Behavioral Ecology, Behavioral Ecology and Sociobiology, Bird Study, Current Biology, Ethology, Ibis, Molecular Ecology, Naturwissenschaften, Journal of Ornithology, Ostrich.

*Grant Reviewer:* National Science Foundation, UC Davis committee for Mathias Award (graduate student grant for UC Natural Reserve System), UC Davis Postdoctoral Scholars Association Travel Grants, Earthwatch Institute.

*Professional Committees and Service:* American Ornithologists' Union Young Professionals Committee, AOU Membership Committee, AOU Student Awards Judge. Friends of Wildcat Canyon Advisory Board.